Review – System of Equations

1.)    5x + 2y = - 35  
       - 5x + 2y = 35

2.)    x - y = - 3  
      x + 4y = 12

3.)    4x + 2y = 56  
      x - 2y = - 6

4.)    5x - 3y = 9  
      5x + 5y = 65

5.)    - x - 5y = - 43  
      x + 3y = 29

6.)    x + y = - 6  
       - 3x + 3y = - 6

7.)    4x + 2y = - 42  
       - 2x + 8y = - 60

8.)    5x + y = 53  
      3x + 4y = 59

9.)    5x + 4y = - 6  
      2x + 8y = - 60

10.)    3x - 2y = - 14  
       - 9x - 3y = - 48

11.)    - 4x - y = - 6  
      - x - 4y = 21   
12.)    3x + y = 31  
       - 3x + 3y = - 3

13.)    x + 4y = 32  
       - 4x + 5y = 82

14.)    4x + 5y = 3  
      3x + 4y = 4

15.)    - 4x - 4y = - 12  
      x + 5y = - 17

16.)    y = 5x - 30  
       - 5y + x = 54

17.)    5y + 2x = 38  
      y = - 4x + 40

18.)    4x = y + 2  
      x = - 5y - 52

19.)    x = - 5y - 49  
      5x + 3y = - 47

20.)    x = - y - 1  
      x = - 2y + 6

1. In a class of 35 pupils there are 7 more girls than boys. How many are there of each?
2. Find two numbers whose sum is 99 and whose difference is 19.
3. The sum of the ages of two brothers is 43 years, and one of them is 15 years older than the other. Find their ages.
4. Divide the number 70 into two parts, such that one part shall be 26 less than the other part.
5. John and Henry together have 143 marbles. If I should give Henry 15 more, he would have just as many as John. How many has each?
6. In a storehouse containing 57 barrels there are 3 less barrels of flour than of meal. How many of each?
7. 7. A man whose herd of cows numbered 63 had 17 more Jerseys than Holsteins. How many had he of each?
8. Two men whose wages differ by 8 dollars receive both together $44 per month. How much does each receive?
9. At an election in which 1079 votes were cast the successful candidate had a majority of 95. How many votes did each of the two candidates receive?
10. The sum of three numbers is 56; the second is 3 more than the first and the third 5 more than the first. What are the numbers?